

# THE UNIVERD SHAYES OF AMERICA

Homeer Hi-Bred International, Inc.

A LCCCAS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY BARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SEPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE USET TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CRITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TO BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

*SOYBEAN* 

'RJS39001'

In Testimony Interest, I have hereunto set my hand and caused the seal of the Flant Insisty Isotection Office to be affixed at the City of Washington, D.C. this fourteenth day of November, in the year two thousand and eight.

Atlast:

Qenza

Commissioner

Plant Variety Protection Office Agricultural Marketing Service Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and de	ite on all reprodu	ctions				Form Approved - OMB No. 0581-0055		
U.S. DEPARTMEN AGRICULTURAL N			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.					
SCIENCE AND TECHNOLOGY - PL APPLICATION FOR PLANT VAR	ANT VARIETY PE	ROTECTION OFFICE ON CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).					
(Instructions and information coll 1. NAME OF OWNER	lection burden stat	fernent on reverse)	TEMPORARY DESIGNATION OR 3. VARIETY NAME					
Pioneer Hi-Bred Internation	ai, Inc.		XB40Y07 RJS39001					
4. ADDRESS (Street and No., or R.F.D. No., City,		de, and Country)	5. TELEPHONE (include area	e code)		FOR OFFICIAL USE ONLY		
7300 N.W. 62nd Avenue			(515) 253-2197					
P.O. Box 1004			6. FAX (include area code)		#	200800139		
Johnston, IA 50131-1004		(515) 253-2288	-	FILING DATE				
7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, association)	9. DATE OF INCORPORATION	ON	2	128/2008				
Corporate		Iowa	May 6, 1926			•		
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	SERVE IN THIS APPLICATION. (First	t person listed will receive all paper	rs)	F E E	FILING AND EXAMINATION FEES:		
Paul D. Koelling		Cassie J. Prochasl	ka		S	· 4,382,00		
7300 N.W. 62nd Avenue		7250 N.W. 62nd A	Avenue		R E	DATE 2/25/2008  CERTIFICATION FEE:		
P.O. Box 1004		P.O. Box 552			E	\$ 768.00		
Johnston, IA 50131-1004		Johnston, IA 50:	131-1000		V	DATE 10/7/08		
<u> </u>					D	1077708		
11. TELEPHONE (Include area code)	12. FAX (Includ		13. E-MAIL					
(515) 253-2197 14. CROP KIND (Common Name)		253-2288 AME (Botenical)	paul.koelling			COM RANSGENES? (OPTIONAL)		
			YES	□NO				
Soybean 15. GENUS AND SPECIES NAME OF CROP	Fabace	<b>CAC</b> RIETY A FIRST GENERATION HYBR	IF SO, PLEASE GIV	/E THE ASS	SIGNED	USDA-APHIS REFERENCE NUMBER FOR THE ATE THE GENETICALLY MODIFIED PLANT FOR		
Chreina may	YES	X NO	COMMERICALIZAT		REGUL	ATE THE GENETICALLY MODIFIED PLANT FOR		
Glycine max  19. CHECK APPROPRIATE BOX FOR EACH ATTA	ACHMENT SUBMI	ITTED	20. DOES THE OWNER	SPECIFY		EED OF THIS VARIETY BE SOLD AS A CLASS		
(Follow instructions on reverse)						33(e) of the Plant Variety Protection Act)		
a. X Exhibit A. Origin and Breeding History of the Variety				SPECIFY 1		and 22 below) X NO (If "no", go to item 23) EED OF THIS VARIETY BE LIMITED AS TO		
b. X Exhibit B. Statement of Distinctness			NUMBER OF CLASS					
c. X Exhibit C. Objective Description of Variety				□ NO	7 FOU	NOATION DECICTEDED DECEDED		
d. X Exhibit D. Additional Description of the Variety (Optionel)				SPECIFY T	THAT S	NDATION REGISTERED CERTIFIED EED OF THIS VARIETY BE LIMITED AS TO		
e. X Exhibit E. Statement of the Basis of the Owner's Ownership  f. X Exhibit F. Declaration Regarding Deposit			NUMBER OF GENE		)			
			YES	NO		· · · · · · · · · · · · · · · · · · ·		
<li>g. X Voucher Sample (3,000 viable untracted seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)</li>			IF YES, SPECIFY TH	HE NUMBER	R 1,2,3,	etc. FOR EACH CLASS.		
g. X Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Variety Protec		reasurer of the United	FOUNDATION REGISTERED CERTIFIED  (If additional explanation is necessary, please use the space indicated on the reverse.)					
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSEI			24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT?)					
OTHER COUNTRIES?  ☐ YES ✓ NO			YES	NO				
IF YES, YOU MUST PROVIDE THE DATE OF FOR EACH COUNTRY AND THE CIRCUMSTA						E OF FILING OR ISSUANCE AND ASSIGNED nace indicated on reverse.)		
25. The owners declare that a viable sample of bas				quest in acco	ordance	with such regulations as may be applicable, or		
	his sexually repro	duced or tuber propagated plant varie		s new, distin	net, unife	orm, and stable as required in Section 42, and is		
entitled to protection under the provisions of Sect Owner(s) is (ere) informed that false representa		•	lties.					
SIGNATURE OF OWNER	7		SIGNATURE OF OWNER					
Paul O. Koellin	rig.							
NAME (Please print or type) Paul D. Koelling			NAME (Please print or type)					
CAPACITY OR TITLE	DATE		CAPACITY OR TITLE		DATE			
Process Improvement Manager	,	625,2008						

## #200800139

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

#### ITEM 19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22, CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
  U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing date sources, gathering and mainteining the date needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice of TOD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

## Exhibit A. Origin and Breeding History of the Variety

Soybean Variety RJS39001

Variety RJS39001 evolved from a cross made in the summer of 2000 in Illinois with the following parentage:

Parentage = 93B86/93B68\*

\*93B68 is a commercial variety with the Roundup Ready® (40-3-2) gene

Variety RJS39001 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of RJS39001 was grown in a plant row yield trial in Iowa in the summer of 2002. Subsequently, RJS39001 has undergone five seasons of extensive testing and purification in the United States. It has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, soybean cyst nematode resistance (Race 3), Phytophthora resistance and resistance to Roundup® branded herbicides; variety RJS39001 was assigned a commercial number.

The purification block was grown in 2005 in lowa and 43 sub-lines were harvested. A fourth (0.25) acre increase was grown in Argentina in the winter of 2005/06. Eighteen (18) acres of parent seed stock (foundation seed equivalent) were grown in the summer of 2006, and approximately 510 acres of seed stock and production seed were grown in the summer of 2007.

## **Exhibit B. Statement of Distinctness**

Soybean Variety RJS39001

Variety RJS39001 is most similar to Pioneer variety 93M96. Both varieties have white flowers, light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to race 3 of the soybean cyst nematode, resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup® branded herbicides. However, RJS39001 and 93M96 have a different isozyme profiles as identified in table 1 below.

Table 1

Variety	ACO2	DIA	IDH2	MDH	GPI1
RJS39001	2,1	В	2,1	В	2
93M96	2	Α	1	Α	1

Variety RJS39001 is also similar to Agripro variety AP3955RRN. Both varieties have white flowers, light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to race 3 of the soybean cyst nematode, and resistance to Roundup® branded herbicides. However, RJS39001 has resistance to *Phytophthora megasperma* as governed by the Rps1k gene, whereas AP3955RRN has no resistance to *Phytophthora megasperma* as governed by the Rps1k gene.

Form Approved OMB NO 0581-0055

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Weshington, D.C. 20250-9410, or cell (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

#### U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

C
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Sovbean (Glycine max (L.) Merr.)

	Toynoan (Jayona	·					
NAME OF APPLICANT (S)	TEMPORARY OR EXPERIM	ENTAL DESIGNATION	VARIETY NAME				
Pioneer Hi-Bred International, Inc.	XB40Y	07	RJS:	39001			
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Co	FOR OFFICIAL USE	FOR OFFICIAL USE ONLY					
7300 N.W. 62nd Avenue, P.O. Box 1004, 、	Johnston, IA, 50131-10	004	# 2 0 0	80013			
	etal character of this variety in 9 ) when number is either	r 99 or less or 9 or less respectiv					
should be based on a minimum of 100 plants. Comparing recognized color standard may be used to determ			-	Please answer			
all questions for your variety; lack of response may de	-						
A. MORPHOLOGY:		1 🖨					
Seed Shape:							
1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)		erical-Flattened tios> 1.2; L/T ratios ≤ 1.2)	1   94				
3 = Elongate (L/W ratios > 1.2, T/W ratios ≤ 1.2		ngate-Flattened os ≥ 1.2; L/W ratios ≥ 1.2)					
Seed Coat Color:							
* 1 1 = Yellow 2 = Green 3 =	Brown 4 = Black	5 = Other (Please spec	oify)				
Seed Coat Luster:							
1 1 = Dull 2 = Shiny	·						
Seed Size:							
* 15.9 grams/100 seeds (rounded	to the nearest decimal	I (00.0 <b>)</b> )					
Hilum Color:							
* 6 1 = Buff 2 = Yellow 3 = [ 7 = Other (Please specify)	Brown 4 = Gray	5 = Imperfect Black	6 = Black				

## A. MORPHOLOGY: (continued)

Cotyledon Color:

Seed Protein Peroxidase Activity:

Hypocotyl Color:

1 = Green

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

3 1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

1 1 = White 2 = Purple

3 = White with a Purple Throat

Pod Color:

2 1 = Tan

2 = Brown

3 = Black

Pubescence Color:

\* 3 1 = Grav

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

\* 3 1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

6

1 = 000 6 = |||

2 = 007 = IV

3 = 08 = V 4 = 1 9 = VI

5 = 1110 = VII

11 = VIII

12 = 1

13 = X

14 = XI

15 = XII

Maturity Subgroup:

Please enter a value from 0-9

## **B. DISEASE REACTIONS**: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

#### Bacterial

- 0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- 1 Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

#### Fungal

- Brown Spot (Septoria glycines Hemmi)
- 0 Frogeye Leaf Spot (Cercospora sojina Hara)
- 0 race 1

race 2

- 0 race 3 0 race 4
- 0 race 5
- race 7
- Important: Any other races tested (Please specify) 0 race 6

B. DISEASE REACTIONS: (continue	В.	DISEASE REACTIONS:	(continued)
---------------------------------	----	--------------------	-------------

	0	Target Spot	(Cor	ynespora cass	siico	la (Berk. & Cur	t.) V	Vei)					
	0	1	•	•		rum var. manch	•	•	ı. Ex	(Gäum)			
	0	1	•	-		<i>usa</i> Cke. & Pk		` , ,		,			
	0	Brown Stem	Rot	(Phialophora (	greg	ata (Allington 8	& Ch	namberlain) W.	Ga	ms.)			
*	0	ī			_	um (Cke. & Ell.		· ·		-	well)		
*	1	Pod and Ste	m Bl	ight ( <i>Diaporthe</i>	e ph	aseolorum (Ck	е. &	: Ell.) (Sacc. va	ır. so	ojae (Lehman)	Wel	nm.)	
	0	Purple Seed	Stai	n (Cercospora	Kiki	uchii (T. Matsu	. & -	romoyasu) Ga	гder	ner)		·	
	1	Rhizoctonia	Root	: Rot ( <i>Rhizoct</i> o	nia	<i>solani</i> Kühn)				·			
	0	Asian Soybe	an R	Rust ( <i>Phakosp</i> o	ora p	oachyrhizi Syd	W. (a	a.k.a. Phakosp	ora	pachyrhizia Sy	/dw.)	))	
	0	Other (F	leas	e specify)				· 					
ре	cify	the gene(s) c	odin	g for reaction t	o Pł	nytophthora Ro	ot F	Rot.					
	0	Rps1 (Williams)	0	Rps1-c (Arksoy)	2	Rps1-k (Kingwa)	0	<i>Rps3-b</i> (Pl 172.901)	0	Rps5 (Pl 91.160)	0 7	R <i>ps?</i> (Nezumisaya, O>	(939, OX940
	0	<i>Rps1-a</i> (Mukden)	0	<i>Rps1-d</i> (Pl 103.091)	0	Rps2 (CNS)	0	Rps3-c (Pl 340.046)	0	Rps6 (Altona)			
	0	<i>Rps1-b</i> (Sanga)	0	Rps1-e (Pl 172.907)	0	Rps3-a (PI 171.442)	0	<i>Rps4</i> (Pl 86.050)	0	<i>Rps7</i> (Harosoy)			
Phy	/top	hthora Root F	ot (/	Phytophthora :	sojae	e (Kaufmann &	Ge	rdemann))					
	0	race 1	0	race 9	0	race 17	0	race 25	0	race 32	0	race 39	
	0	race 2	0	race 10	0	race 18	0	race 26	0	race 33	0	race 40	
	0	race 3	0	race 11	0	race 19	0	race 27	0	race 34	0	race 41	
	0	race 4	0	race 12	0	race 20	0	race 28	0	race 35	0	race 42	
	2	race 5	0	race 13	0	race 21	0	race 29	0	race 36	0	гасе 43	
	0	race 6	0	race 14	0	race 22	0	race 30	0	race 37	0	race 44	
	2	race 7	0	race 15	0	race 23	0	race 31	0	race 38	0	race 45	
	0	race 8	0	race 16	0	race 24	0	Important: An	y ot	her races test	ed (F	Please specify) _	
	1	Bud Bliaht (To	obac	co Ringspot V	'irus'	١							
Ī				ean Yellow Mo									
*			-	Cowpea Chlor		ŕ							
ĺ	1	Pod Mottle (E	ean	Pod Mottle Vi	rus)	•							
*.				bean Mosaic V	_	)							
اer	nato	ode											
Soy	bea	ın Cyst Nema	tode	(Heterodera g	ılycii	nes Ichinohe)							
		· ·		· _	rac	·							
Ī	n	race 2	=	nce 5	rac	o 1/I							

0 Important: Any other races tested (Please specify)

В.	DISEA	SE REACTIONS: (continued)
	0 Lan	ce Nematode ( <i>Hoplolaimus columbus</i> Sher)
		thern Root Knot Nematode ( <i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)
	=	hern Root Knot Nematode ( <i>Meliodogyne hapla</i> Chitwood)
		nut Root Knot Nematode ( <i>Meliodogyne arenaria</i> (Neal) Chitwood)
		iform Nematode ( <i>Rotylenchus reniformus</i> Linwood & Olivera)
		anese Nematode ( <i>Meliodogyne javanica</i> (Treub) Chitwood)
	<del></del>	ortant: Other Nematodes tested (Please specify)
<b>)</b> .	PHYSI	OLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0 Iron	Chlorosis on Calcareous Soil
	0 Pho	sphorus 0 Important: Other (Please specify)
	0 Boro	en
٠.	0 Alur	ninum
	0 Salt	
	0 Droi	nght spirit
Э.	0 Mex 0 Soyl	T REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant  can Bean Beetle ( <i>Epilachna varivestis</i> Mulsant)  pean Aphid ( <i>Aphis glycines</i> Matsamura)  to Leaf Hopper ( <i>Empoasca fabae</i> (Harris))  prtant: Other (Please specify)
Ξ.	HERBI	CIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0 Met	ibuzin
	0 Ben	azone
	1 Sulf	onylurea
*	2 Glyp	hosate
		osinate
	0 Pen	dimethalin
	0 Impo	ortant: Other (Please specify)

#### F. TRANSGENIC COMPOSITION:

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests\*. Use additional pages if necessary. 

✓ Yes 

No

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- \* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

#### G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

#### H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								
Cited Most Similar Variety Year/Location 1								
Year/Location 2 LSD .05								

### I. COMMENTS:

#### Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

## Exhibit D. Additional Description of the Variety

Soybean Variety RJS39001

In Exhibit C we have identified variety RJS39001 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety RJS39001 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider RJS39001 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety RJS39001 is a late Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of RJS39001 is 3.9.

REPRODUCE LOCALLY. Include form number and edition date on a	ll reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be issued (7 U.S.C. 2-	421). The information is held
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issu	ied (7 U.S.C. 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.	XB40Y07	RJS39001
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62nd Avenue	(515) 253-2197	(515) 253-2288
P.O. Box 1004	7. PVPO NUMBER	
Johnston, IA 50131-1004	#200800	1 3.9
8. Does the applicant own all rights to the variety? Mark an "X" in th	ine appropriate block. If no, please expla	ain. YES NO
9. Is the applicant (Individual or company) a U.S. national or a U.S. I	based company? If no, give name of c	ountry. 🗸 YES 🗌 NO
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation  NO If no, give name of count	
b. If the original rights to variety were owned by a company(ies	), is (are) the original owner(s) a U.S. ba  ✓ NO If no, give name of count	
11. Additional explanation on ownership (Trace ownership from original)	inal breeder to current owner. Use the r	everse for extra space if needed):
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licen	sees) who meet the following criteria:	
.1. If the rights to the variety are owned by the original breeder, that partional of a country which affords similar protection to nationals of		
<ol><li>If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.</li></ol>		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must n	neet one of the above criteria.
The original breeder/owner may be the individual or company who d Act for definitions.	irected the final breeding. See Section 4	41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor	r, and a person is not required to respond to a collecti	on of information unless it displays a valid OMB

control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 0.1 hour perioducing the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of rece, color, netronal origin, gender, religion, age, disability, sexual orientation, manilel or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 mirrutes per response, including the time for reviewing instructions, searching existing date sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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#### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**EXHIBIT F** DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB40Y07		
	P.O. Box 1004 Johnston, IA 50131-1004	VARIE RJS39001		
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY		
Paul D. Koelling	7300 N.W. 62nd Avenue P.O. Box 1004	PVPD INMERS		
Cassie J. Prochaska	Johnston, IA 50131-1004	#20080013		

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Paul D. Poelling

Feb 25, 2008